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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/740,975	12/21/2000	Toshiyuki Okuyama	Q62436	5502

7590 06/23/2004

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Washington, DC 20037

EXAMINER

WILLIAMS, LAWRENCE B

ART UNIT	PAPER NUMBER
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2634

DATE MAILED: 06/23/2004

8

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/740,975

Applicant(s)

OKUYAMA, TOSHIYUKI

Examiner

Lawrence B Williams

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2000.
- 2a) ☐ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-11 is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 December 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because
 - a.) In the newly presented abstract on page 6 of the Supplemental Amendment, on line 13, delete the expression " $S_{2n,0}^*$ " and replace with " $S_{2n,0}^*$ ".Correction is required. See MPEP § 608.01(b).
2. The disclosure is objected to because of the following informalities:
 - a.) In the Amendments to the Specification, on page 3, line 12, delete the expression " $C_{2n,0}$ " and replace with " $C_{2n,0}$ ".
 - b.) In the Amendments to the Specification, on page 3, line 17, delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ".
 - c.) In the Amendments to the Specification, on page 3, line 18, delete the expression " $C_{2n,1}^*$ " and replace with " $C_{2n,1}^*$ ".
 - d.) In the Amendments to the Specification, on page 4, line 3, delete the expression after complex conjugate " $C_{2n,0}$ " and replace with " $C_{2n,0}^*$ ".
 - e.) In the Amendments to the Specification, on page 4, line 4, delete the expression after complex conjugate " $S_{2n,0}^*$ " and replace with " $S_{2n,0}^*$ "; also delete the expression " $C_{2n,1}^*$ " and replace with " $C_{2n,1}^*$ ".

f.) In the Amendments to the Specification, on page 4, line 8, delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ "; also delete the expression " $C_{2n,0}$ " and replace with " $C_{2n,0}^*$ " and " $C_{2n,1}$ " with " $C_{2n,1}^*$ ".

g.) In the Amendments to the Specification, on page 4, line 13, delete the expression " $C_{2n,0}$ " and replace with " $C_{2n,0}^*$ ".

h.) In the Amendments to the Specification, on page 4, line 14, delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ", also delete the expression " $C_{2n,1}$ " and replace with " $C_{2n,1}^*$ ".

i.) In the Amendments to the Specification, on page 4, line 18, delete the expression " $C_{2n,0}$ " and replace with " $C_{2n,0}^*$ ".

j.) In the Amendments to the Specification, on page 4, line 19 delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ", also delete the expression " $C_{2n,1}$ " and replace with " $C_{2n,1}^*$ ".

k.) In the Amendments to the Specification, on page 5, line 3 delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ", also delete the expression " $C_{2n,0}$ " and replace with " $C_{2n,0}^*$ ", and replace " $C_{2n,1}$ " with " $C_{2n,1}^*$ ".

l.) In the Amendments to the Specification, on page 5, line 8 delete the expression " $C_{2n,0}$ " that follows "as" and replace with " $C_{2n,0}^*$ ".

m.) In the Amendments to the Specification, on page 5, line 9 delete the expression " $S_{2n,0}$ " that follows "as" and replace with " $S_{2n,0}^*$ " and also delete the expression " $C_{2n,1}$ " that follows "as" and replace with " $C_{2n,1}^*$ ".

Appropriate correction is required.

3. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

4. Claims 2, 6, 7, 10, and 11 are objected to because of the following informalities:
- a.) In claims 2, 7, 10 line 4, delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ".
 - b.) In claim 6, line 10, delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ".
 - c.) In claim 9, line 11, delete the expression " $S_{2n,0}$ " and replace with " $S_{2n,0}^*$ ".

Appropriate correction is required.

Allowable Subject Matter

5. Claims 1-11 are allowed.

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6. The following is a statement of reasons for the indication of allowable subject matter:
- The instant application discloses a transmission diversity detection system that detects the presence or absent of STTD transmission diversity by a simple arithmetic operation. An extensive search of prior art records fail to disclose a circuit or system comprising "taking a complex conjugate of said primary CPICH symbol along with the remaining limitations of independent claims 1, 6 and 9.

Conclusion

7. This application is in condition for allowance except for the following formal matters:
- a.) Specification objections as noted above.
 - b.) Claim objections as noted above.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lawrence B Williams whose telephone number is 703-305-6969. The examiner can normally be reached on Monday-Friday (8:00-5:00).

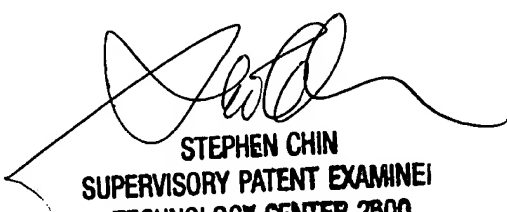
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lawrence B. Williams

lbw
June 16, 2004



STEPHEN CHIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800